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APPL PARTS

Internal Misc. Paper

MISC INCOMING LEAGH
371P
PCT Papers in a 371Application
A
Amendment Including Elections
ABST
Abstract
ADS
Application Data Sheet
AF/D
Affidavit or Exhibit Received
APPENDIX
Appendix
ARTIFACT
Artifact
BIB
Bib Data Sheet
CLM
Claim
COMPUTERCOMPUTER
CRFL
All CRF Papers for Backfile
DIST
DIST Terminal Disclaimer Filed
DRW
Drawings
FOR01
Foreign Reference
FRPR
FRPR Foreign Priority Papers
IDS
IDS Including 1449

	NPL01
Non-Patent Lit	terature
	OATH
Oath or Decla	ration
	PET.
Petition	<u> </u>
	RETMAIL
Mail Returned	by USPS
	SEQLIST
Sequence List	
	SPEC
Specification	
	SPEC NO
Specification I	Not in English
	TRNA
Transmittal No	ew Application

	CTNF
Count Non-Fin	al
	CTRS
Count Restricti	on
	EXIN
Examiner Inter	view
	M903
DO/EO Accept	ance
	M905
DO/EO Missing	g Requirement
	NFDR
Formal Drawin	g Required
	NOA
Notice of Allow	ance
	PETDEC

OUTGOING

	CIMS
Misc. Office At	tion
	1449
Signed 1449	
	892
892	
	ABN
Abandonment	
	APDEC
Board of Appe	als Decision
	APEA
Examiner Ans	wer
	CTAV
Count Advisor	y Action
	CTEQ
Count Ex part	e Quayle
	CTFR
Count Final R	ejection

Appeal Brief	P.B
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Change of Address	s
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Notice of Appeal	
Change in Power of	A of Attorney
	EM
Applicant Remarks	s in Amendment
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Extension of Time	filed separate

INCOMING

Internal	
SRNTExaminer Search Notes	WCLM
CLMPTO	WFEE
PTO Prepared Complete Claim Set	Fee Worksheet

File Wrapper
File Wrapper Claim
IIFW
SRFW

Office Action Summary

Application No. 08/973,017

Applic, s

Leijon et al.

Examiner

Enad, Elvin

Group Art Unit 2834



X Responsive to communication(s) filed on Apr 10, 2000	·
This action is FINAL.	
Since this application is in condition for allowance except for formatic accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D.	11, 400 0.0. 210.
A shortened statutory period for response to this action is set to expirits longer, from the mailing date of this communication. Failure to respanylication to become abandoned. (35 U.S.C. § 133). Extensions of 37 CFR 1.136(a).	e 3 month(s), or thirty days, whichever
Disposition of Claims	is/are pending in the application.
X Claim(s) 1-4, 6-10, 12-35, 37, and 39-50	is/are pointing transposideration
Of the above, claim(s)	
Claim(s)	is/are allowed.
X Claim(s) 1-4, 6-10, 12-35, 37, and 39-50	is/are rejected.
Claim(s)	is/are objected to.
Claims	are subject to restriction or election requirement.
Application Papers See the attached Notice of Draftsperson's Patent Drawing Revi The drawing(s) filed on	r 35 U.S.C. § 119(a)-(d). priority documents have been national Bureau (PCT Rule 17.2(a)).
Attachment(s) Notice of References Cited, PTO-892 Information Disclosure Statement(s), PTO-1449, Paper No(s). Interview Summary, PTO-413 Notice of Draftsperson's Patent Drawing Review, PTO-948 Notice of Informal Patent Application, PTO-152	
SEE OFFICE ACTION ON THE	FOLLOWING PAGES

Application/Control Number: 08/973,017 Page 2

Art Unit: 2834

DETAILED ACTION

1. Applicant's arguments with respect to claims 1-4,6-35,37 and 39-50 have been considered and found persuasive therefore the finality of that action is withdrawn.

Claim Rejections - 35 USC § 112

2. Claims 23,27,35,37,41 and 42 are rejected under 35 U.S.C. § 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

In claim 23, the limitation which recites the machine having "two or more poles" is unclear. Is this referring to the generator rotor or stator?

In regard to claim 27, the meaning of the rotor being "pronounced" is unclear.

In regard to independent claim 35, the beginning of the sentence with "The" should be replaced with ---A--- for clarity and proper format. See also claim 37.

In regard to claims 41 and 42, these claims are dependents of claim 39. If applicant desires to change their dependencies, then the proper format for amending the claims should be used.

Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Application/Control Number: 08/973,017

Art Unit: 2834

4. Claims 1-4,6-8,10,12,21,31,32,34,35 and 37 are rejected under 35 U.S.C. § 103(a) as being unpatentable over Shildneck (USP 3,014,139) in view of Elton et al. (USP 5,036,165).

Shildneck discloses the claimed invention except for having a cable winding comprising of at least one semiconducting layer around the conductor. Shildneck discloses a direct cooled cable winding for an electromagnetic device such as a large turbine-driven generator.

Elton et al. teach that it is known to have an electrical cable comprising an internal grading layer of semi-conducting pyrolyzed glass fiber layer in electrical contact with the cable conductor. In another form of embodiment, Elton et al. teach an electrical cable provided with an exterior layer of internal grading layer of semi-conducting pyrolyzed glass fiber layer in contact with an exterior cable insulator with a predetermined reference potential.

It would have been obvious to one having ordinary skill in the art at the time the invention was made to have used the cable winding as taught by Elton et al. to the dynamoelectric machine of Shildneck since such a modification according to Elton et al. would prohibit the development of corona discharge.

5. In regard to forming the semiconducting layer with the same coefficient of thermal expansion to that of the insulation layer, it would have been obvious to one having ordinary skill in the art at the time the invention was made to have formed these layers with similar coefficients since it was known in the art that having the expansion rate of the two layers the same is desirable in order to prevent cracking of the insulation and rapid wear between the two.

Application/Control Number: 08/973,017

Art Unit: 2834

6. Claims 9,13-20,30,33 and 39-49 are rejected under 35 U.S.C. § 103(a) as being unpatentable over Shildneck (USP 3,014,139) in view of Elton et al. (USP 5,036,165) and further in view of Takaoka et al. (USP 5,094,703) and German Patent Specification No. 468,827.

Shildneck and Elton et al. disclose the claimed invention except for having cable windings which consists of a plurality of strands having electrical conductors which are insulated and uninsulated. In addition, Elton et al. do not disclose having a stator comprising slot(s) consisting of a number of cylindrical openings separated by narrow waist parts.

Takaoka et al., as seen in figures 7,8,10 and 11 teach having a stranded conductor for an electrical cable comprising a combination of uninsulated stranded conductor and an insulated stranded conductor.

German Patent Specification No. 468,827 teaches that it is known to have a stator having cylindrical opening winding slots with decreasing radius in order to accommodate the winding conductors having varying diameters.

It would have been obvious to one having ordinary skill in the art at the time the invention was made to have used the teaching of Takaoka et al. having insulated and uninsulated electrical conductor strands and to have modified the device of Shildneck and Elton et al. since such a modification according to Takaoka et al. would reduce the amount of insulation needed and the number of electrical connections required in the end windings. Moreover, it would have been obvious to have used the stator slot arrangement as taught by German Patent Specification No.

Art Unit: 2834

468,827 since such an arrangement according to column 1, lines 25-29 would accommodate the

conductors having varying diameters.

Conclusion

7. The prior art made of record and relied upon is considered pertinent to applicant's

disclosure.

8. Any inquiry concerning this communication or earlier communications from the examiner

should be directed to Elvin Enad whose telephone number is (703) 308-7619. The examiner can

normally be reached on Monday-Friday from 8:00AM to 4:00PM.

9. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor,

Nestor Ramirez, can be reached on (703) 308-1371. The fax phone number for this Tech Center

is (703) 305-3431(32).

Any inquiry of a general nature or relating to the status of this application or proceeding

should be directed to the Group receptionist whose telephone number is (703) 308-0956.

Elvin Enad Primary Examiner

Art Unit 2834

05.10.2000